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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/699,529	10/31/2003	Robert H. Wollenberg	T-6298 (538-59)	2770	
7590 05/08/2006			EXAMINER		
Michael E. Carmen, Esq.			WALLENHORST, MAUREEN		
M. CARMEN & ASSOCIATES, PLLC 170 OLD COUNTRY ROAD			ART UNIT	PAPER NUMBER	
SUITE 400			1743		
MINEOLA, NY 11501			DATE MAILED: 05/08/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

				'n		
		Application No.	Applicant(s)			
Office Action Comments		10/699,529	WOLLENBERG ET A	L.		
	Office Action Summary	Examiner	Art Unit			
		Maureen M. Wallenhorst	1743			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence addre	ss		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS fron . cause the application to become ABANDONI	N. mely filed n the mailing date of this commi			
Status						
1)	Responsive to communication(s) filed on 06 Fe	ebruary 2006 and 06 March 2006	6			
	☐ This action is FINAL . 2b) ☐ This action is non-final.					
3) 🗌	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merit					
	closed in accordance with the practice under E					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-30 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.				
Applicati	ion Papers					
9) 10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1			
Priority u	under 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Sta	ge		
	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary				
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152	2)		

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1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 6, 2006 has been entered.

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- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 20 and 22-23 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 13-14 and 21 of copending Application No. 10/699,510. Although the conflicting claims are not identical, they

are not patentably distinct from each other because both sets of claims recite a method for producing a combinatorial library of different lubricating oil compositions by combining a major amount of a base oil of lubricating viscosity with a minor amount of an oil additive to form a plurality of lubricating oil composition samples, and placing the samples in a plurality of test reservoirs. In addition, both sets of claims recite analyzing the lubricating oil composition samples for property data.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

5. Claims 20 and 22-30 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-2, 13-18, 20-22 and 33-38 of copending Application No. 10/699,507. Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims recite a method for producing and screening lubricating oil additive compositions comprising the steps of providing a plurality of lubricating oil additive compositions, each containing a major amount of a base oil of lubricating viscosity and a minor amount of an oil additive, measuring composition property data such as the storage stability of the samples, and outputting the results.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

6. Claims 20, 22-24 and 26-30 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3 and 10-14 of copending Application No. 10/699,508. Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims recite a method for

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producing and screening lubricating oil additive compositions comprising the steps of providing a plurality of lubricating oil additive compositions, each containing a major amount of a base oil of lubricating viscosity and a minor amount of an oil additive, measuring composition property data such as the oxidation stability of the samples, and outputting the results.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

7. Claims 1 and 17-18 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 34 of copending Application No. 10/779,422. Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims recite a combinatorial lubricating oil composition library comprising a plurality of different lubricating oil compositions, each containing a major amount of a base oil of lubricating viscosity and a minor amount of an oil additive, and property data of the compositions such as deposit formation.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

9. Claims 1-3, 8-11 and 16-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Carey et al. (US 2004/0144355)

Carey et al teach of a plurality of lubricating oil compositions, wherein each of the compositions contains a primary base oil of lubricating viscosity and a performance-enhancing additive. The primary base oil lubricant can be a natural or synthetic oil or mixtures thereof. The viscosity of the base oil blend is in the range of 5 to about 30 cSt at 100°C. The additives can include detergents, antioxidants, dispersants, pour point depressants, defoamants, extreme pressure additives and antiwear additives. See paragraph nos. 0013 and 0014 in Carey et al. In example 2 taught by Carey et al, a series of oil compositions are taught, each having a marine engine oil base with different additives therein. Table II lists the additives used and their amounts. Storage stability data is also presented for each of the compositions listed. The storage stability data refers to the amount of sediment that forms when the compositions are stored at a certain temperature for a certain time period. See paragraph no. 0038 in Carey et al.

10. Claims 1-2, 8-10 and 16-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Kolosov et al (US 2004/0123650).

Kolosov et al teach of a high throughput testing method and apparatus for the screening of a library of material samples. The method and apparatus involve combinatorial chemistry that refers to the synthesis of a collection of diverse materials, and the screening of the materials for desirable performance characteristics and properties. The combinatorial approach can effectively evaluate much larger numbers of diverse compounds in a much shorter period of time. The apparatus taught by Kolosov et al includes a plurality of samples supported in wells on a substrate. Kolosov et al teach that the invention can be used to screen libraries of any flowable material that may be a commercial product itself or may be a portion of a commercial product. Exemplary commercial products that can be tested with the apparatus taught by

Kolosov et al include lubricants and oils. The invention can be used to analyze the resulting properties of a particular flowing material, and to analyze the relative or comparative effects that an additive has upon a particular flowable material. Additives in a flowable material to be tested include a detergent, a flow modifier, etc. See paragraph nos. 0042-0043 in Kolosov et al. The screening for the effects of different additives upon the characteristics of a flowing material is performed by measuring various properties of the material samples present in the wells on the substrate. Properties measured include the viscosity, the density, the thermal degradation, the aging characteristics, the chemical composition and the agglomeration or sedimentation of the material samples. See paragraph no. 0065 in Kolosov et al. Once the characterizing properties of the samples are determined, the results may be mathematically combined in various combinations to provide figures of merit for the properties of interest. See paragraph no. 0066 in Kolosov et al. The sample size of each sample in the wells on the substrate is typically no greater than about 20 ml, more preferably no greater than about 5 ml, and most preferred, no greater than about 0.5 ml. See paragraph no. 0054 in Kolosov et al. To form an array of samples on the substrate, Kolosov et al teach that the samples and additives are dispensed into the wells with any suitable dispensing apparatus (i.e. an automated micropipette or capillary dispenser). The dispensing apparatus may have a heated tip, thus providing heating of the samples. Each sample is dispensed to an individually addressable region in the substrate. See paragraph no. 0053 in Kolosov et al. The plurality of samples can vary in number depending upon the intended use of the method, and the plurality of samples can form a library. A library comprises an array of two or more different samples spatially separated on a common substrate. Candidate samples within a library may differ in a definable and predefined way, such as in chemical structure, processing,

mixtures of interacting components, the relative amounts of the components, the presence of additives and other reactant materials, etc. The samples are spatially separated on the substrate such that an array of samples is separately addressable for characterization thereof. The two or more samples can reside in separate containers formed as wells in a surface of a substrate or can be simply dispensed onto a common planar substrate. See paragraph no. 0057 in Kolosov et al. The apparatus taught by Kolosov et al comprises a stimulus generator 12 that applies power to a probe 14 for applying a stimulus to one or more samples 16 in the array or library of samples. The apparatus also includes a sensor or transducer 20 for monitoring a response of one or more of the samples 16 to the stimulus. The transducer 20 and the stimulus generator 12 are both in communication with a computer sub-system 23 such as a microprocessor or other computer for manipulating data. The computer sub-system 23 may be employed to receive and store data such as responses of samples 16, material properties of samples, etc. Additionally, the computer subsystem may be employed to command other components of the system such as the stimulus generator and the dispensing means, as well as to correlate responses of samples 16 to their respective material properties. See paragraph nos. 0067-0068 in Kolosov et al. The probe 14 may be translated, rotated, reciprocated or oscillated within the samples so as to mix the samples and subject them to different forces. See paragraph no. 0070 in Kolosov et al. For contacting the probe 14 and dispensing means with the samples 16, the samples may be moved relative to the probe 14, or alternatively, the probe 14 may be moved relative to the samples 16. Combinations of these motions may also occur serially or simultaneously. An automated system may be used to move the one or more probes and the dispensing means serially or simultaneously to the various samples of a library. A suitable automated system is a robotic system such as an XYZ

robot arm that has a multiple axis range of motion such as in the orthogonal X, Y, and Z coordinate axes system. This automated system is part of or in communication with the computer sub-system 23. See paragraph nos. 0073-0074 in Kolosov et al. Kolosov et al also teach that a plurality of control samples having known material properties are also monitored in the libraries along with the samples so that the responses of the samples can be compared with the known material properties of the controls. The responses of the samples in the library can be related to the known material properties by a mathematical relationship.

- 11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 12. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 13. Claims 4-7 and 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carey et al. For a teaching of Carey et al, see previous paragraphs in this Office action.

Carey et al fail to teach that the lubricating oil compositions containing an additive therein have the same kinematic viscosities as recited in instant claims 4-7. However, it would have been obvious to one of ordinary skill in the art at the time of the instant invention to

formulate the lubricating oil compositions taught by Carey et al to have the same kinematic viscosities as recited in instant claims 4-7 so as to make them suitable for a particular intended use, and since the kinematic viscosities of the compositions depend upon the choice of base oil and additive combined together.

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14. Claims 27-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kolosov et al in view of Smrcka et al. For a teaching of Kolosov et al, see previous paragraphs in this Office action. Kolosov et al fail to teach that the results of testing can be stored in a data carrier or transmitted to a remote location.

Smrcka et al teach of a system and method for managing information pertaining to new product development. The method comprises the steps of testing a new chemical product, and storing the results in a data carrier such as a computer readable medium. All the data obtained through testing of a chemical product is stored in a central database. Remote access to the database is available globally from any personal computer having suitable client software installed and suitable network connectivity. See paragraph nos. 0011 and 0038 in Smrcka et al.

Based upon the combination of Kolosov et al and Smrcka et al, it would have been obvious to one of ordinary skill in the art to store the results of testing the lubricating compositions in the library taught by Kolosov et al in a data carrier that is available from a remote access site since Smrcka et al teach that it is advantageous to store the results of testing for products being newly developed on a computer readable data carrier that is available from a remote access site in order to share and disseminate the information concerning the new product to anyone in the world researching that product.

15. Applicant's arguments filed February 6, 2006 have been fully considered but they are not persuasive.

The previous provisional rejections of the claims under the judicially created doctrine of obviousness-type double patenting made in the Office action mailed on November 4, 2005 are maintained since Applicants have not sufficiently amended the claims nor filed the appropriate terminal disclaimers in order to overcome these rejections.

Applicants argue the rejections of the claims under 35 USC 102(e) as being anticipated by Carey et al and under 35 USC 103 as being obvious over Carey et al by stating that at no point is there any disclosure in Carey of any combinatorial lubricating oil composition library comprising a diverse number of a plurality of different lubricating oil compositions. Rather, Applicants argue that Carey et al teach a marine diesel engine system containing a primary lubricant and an additive. In response to this argument, it is first noted that the amended language in the claims concerning "a diverse number of a plurality of different lubricating oil compositions comprising a major amount of at least one base oil of lubricating viscosity and at least one lubricating oil additive" can be interpreted in such a way that the different compositions in the library can each contain the same base oil with a different additive therein in order to render the compositions all different from one another. The claims do not recite that each of the compositions has a different base oil than any of the other compositions, and a different additive than any of the other compositions. The compositions can be different from one another by having both a different base oil and a different additive than any of the other compositions in the library, by having just a different base oil and the same additive as the other compositions in the library, or by having just a different additive and the same base oil as the other compositions in

the library. The reference to Carey et al still anticipates the amended claims since it teaches a plurality of different lubricating oil compositions, wherein each composition comprises a primary lubricant base oil of lubricating viscosity such as a marine engine oil, and a different additive such as a detergent, an antioxidant, a dispersant, a demulsifier, a defoamant or an antiwear additive. See paragraph nos. 0013-0014 in Carey et al. Example 2 in Carey et al teaches a series of lubricating oil compositions that all are very similar to one another in that they each contain TBN 40 marine engine oil and an additive. However, each of the compositions in example 2 contains a different TBN additive or a different amount of the additive. Such a series of lubricating oil compositions constitutes a "combinatorial library" as known to one of ordinary skill in the art, and meets the limitation in the amended claims of a "diverse number of a plurality of different lubricating oil compositions comprising a major amount of at least one base oil of lubricating viscosity and at least one lubricating oil additive". In addition, Carey et al teach of oil composition property data in association with the "library" of different lubricating oil compositions in example 2 in the form of storage stability data such as sedimentation measurements over a period of time.

Applicants argue that Kolosov et al fails to teach of a high throughput method for producing a combinatorial lubricating oil composition library. In response to this argument, it is noted that instant claims 1-2, 8-10 and 16-26 are now rejected under 35 USC 102(e) as being anticipated by Kolosov et al itself since it is believed by the Examiner that the teachings within Kolosov et al are identical to what is currently being recited in these claims. The reference to Kolosov et al teaches of the general analysis of a large number of diverse compounds and that the compounds analyzed can be lubricants having an additive therein. See paragraph nos. 0042-

0043 in Kolosov et al. In the system taught by Kolosov et al, different lubricant compositions having additives therein are contained within test receptacles in an array or combinatorial library. Kolosov et al teach of a method for making the library by the automatic dispensing of a flowable material and an additive into a plurality of test reservoirs, and teach of a robotic system for moving the plurality of test reservoirs relative to a dispensing means or moving the dispensing means relative to the test reservoirs. Although a large number of different types of flowable samples are taught by Kolosov et al as being analyzed in a high throughput manner in a combinatorial library by measuring many different parameters, the fact remains that the disclosure of Kolosov et al does teach of the analysis of lubricant compositions having additives therein in a high throughput manner by placing many different types of the lubricant compositions in a plurality of receptacles, automatically moving the receptacles to locations for measurement of parameters and measuring many different parameters of the samples including those associated with the long-term stability of the compositions. Therefore, the reference to Kolosov et al discloses a high throughput method for producing a combinatorial lubricating oil composition library, as well as the library itself.

Applicants fail to argue the rejection of the claims under 35 USC 103 based upon Kolosov et al and Smrcka et al other than to state that this additional reference does not cure the deficiencies as noted above with regards to Kolosov et al. Since Applicants' arguments with regards to Kolosov et al have been addressed above, no further comment on this reference or the secondary reference to Smrcka et al will be provided.

For all of the above reasons, Applicants' arguments are not found persuasive.

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16. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Maureen M. Wallenhorst whose telephone number is 571-272-

1266. The examiner can normally be reached on Monday-Thursday from 6:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jill Warden, can be reached on 571-272-1267. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

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Maureen M. Wallenhorst **Primary Examiner** Art Unit 1743

mmw

May 3, 2006

manner m. Wallenhowst MAUREEN M. WALLENHORST PRIMARY EXAMINER

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